

G4x16 and G8x16 Configuration switch settings



Business Communications Manager

This document provides information about the G4x16 and G8x16 media bay modules (MBM) configuration parameters.

The following table shows the systems that support the G4x16 and G8x16 MBMs.

The G4x16 MBM is supported on systems with:

- BCM 3.6 or later software
- BCM50 1.0 or later software

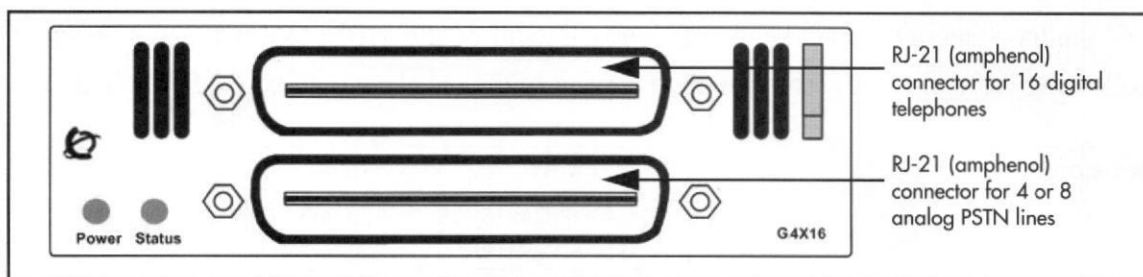
The G8x16 MBM is supported on systems with:

- BCM 3.6 or later software
- BCM50 2.0 or later software

For systems with BCM 3.5 or earlier software, you must upgrade to a supported software version. For the latest upgrades for your BCM system, see the Nortel Technical Support Web site at www.nortel.com/support.

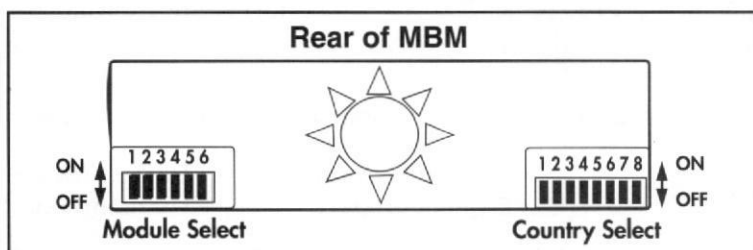
The BCM50 2.0 (and later) Element Manager displays the G8x16 as a combination module, while previous versions of Element Manager display separate trunk and station modules.

The following figure shows the G4x16/G8x16 MBM faceplate with two RJ-21 (amphenol) connectors. The upper RJ-21 (amphenol) connector connects 16 digital telephones to the system, while the lower RJ-21 (amphenol) connector connects 4 or 8 analog public switched telephone network (PSTN) lines with pulse and tone dialing, caller ID, and disconnect supervision in selected markets.



For information about MBM wiring, see the section "G4x16 and G8x16 MBM wiring charts".

The following figure shows the DIP switches at the rear of the G4x16 and G8x16 MBMs.



For information about MBM installation procedures, see the *BCM Installation and Maintenance Guide* for your BCM system.

BCM systems with 3.6 or later software versions

To set the G4x16 and G8x16 MBM DIP switches, see the following information.

Module Select DIP switch settings

Verify that the Module Select DIP switches are in the recommended position. Set switch number 1 to on (up) to enable firmware download when the MBM firmware version does not match the core version; if switch number 1 is set to off (down), a forced firmware download occurs on every bootup. The remaining five DIP switches are for DS30 bus selection. For details about DS30 bus selection, see the *BCM Installation and Maintenance Guide*.

Country Select DIP switch settings

Country profile parameters are automatically configured on BCM systems with 3.6 or later software versions. Set all Country Select DIP switches to off (down), to allow the MBM to download country profile parameters.

Country select dip switch settings								
Setting for automatic downloads (all countries)								
1	2	3	4	5	6	7	8	
off	off	off	off	off	off	off	off	download based on profile
Note: Switches 1–5 are reserved and must be off (down).								

BCM50 systems

The DIP switch settings must be in the default factory positions. Any required modifications are made through the software. For more information, see the *BCM50 Installation and Maintenance Guide*.

Module Select DIP switch settings

Set the Module Select DIP switches to on (up).

Country Select DIP switch settings

Set all Country Select DIP switches to off (down), to allow the MBM to download country profile parameters. The following table provides the settings to configure the G4x16 and G8x16 MBMs in a BCM50 system.

Expansion unit	Module	Card	Lines	DNs
1	05	01	065-068 (G4x16) 065-072 (G8x16)	253-268
2	07	01	095-098 (G4x16) 095-102 (G8x16)	285-300

G4x16 and G8x16 MBM wiring charts

The following tables list the wiring details for the upper RJ-21 (amphenol) connector and the lower RJ-21 (amphenol) connector on the G4x16 and G8x16 MBMs.

Table 1 G4x16 and G8x16 MBM upper RJ-21(amphenol) connector wiring for digital telephones (Sheet 1 of 2)

Set	Pin	Connection	Wire color	Default DN on Expansion port 1	Default DN on Expansion port 2
1	26	Tip	White-Blue	253	285
	1	Ring	Blue-White		

Table 1 G4x16 and G8x16 MBM upper RJ-21(amphenol) connector wiring for digital telephones (Sheet 2 of 2)

Set	Pin	Connection	Wire color	Default DN on Expansion port 1	Default DN on Expansion port 2
2	27	Tip	White-Orange	254	286
	2	Ring	Orange-White		
3	28	Tip	White-Green	255	287
	3	Ring	Green-White		
4	29	Tip	White-Brown	256	288
	4	Ring	Brown-White		
5	30	Tip	White-Slate	257	289
	5	Ring	Slate-White		
6	31	Tip	Red-Blue	258	290
	6	Ring	Blue-Red		
7	32	Tip	Red-Orange	259	291
	7	Ring	Orange-Red		
8	33	Tip	Red-Green	260	292
	8	Ring	Green-Red		
9	34	Tip	Red-Brown	261	293
	9	Ring	Brown-Red		
10	35	Tip	Red-Slate	262	294
	10	Ring	Slate-Red		
11	36	Tip	Black-Blue	263	295
	11	Ring	Blue-Black		
12	37	Tip	Black-Orange	264	296
	12	Ring	Orange-Black		
13	38	Tip	Black-Green	265	297
	13	Ring	Green-Black		
14	39	Tip	Black-Brown	266	298
	14	Ring	Brown-Black		
15	40	Tip	Black-Slate	267	299
	15	Ring	Slate-Black		
16	41	Tip	Yellow-Blue	268	300
	16	Ring	Blue-Yellow		
—	42	No connection	Yellow-Orange	—	—
	17	No connection	Orange-Yellow		
.	.	.	.	.	.
.	.	.	.	.	.
.	.	.	.	.	.
—	50	No connection	Violet-Slate	—	—
	25	No connection	Slate-Violet		

Table 2 G4x16 and G8x16 MBM lower RJ-21 (amphenol) connector wiring for analog PSTN lines

Line	Pin	Connection	Wire color	Default line numbers on Expansion port 1	Default line numbers on Expansion port 2
1	26	Tip	White-Blue	065	095
	1	Ring	Blue-White		
2	27	Tip	White-Orange	066	096
	2	Ring	Orange-White		
—	28	No connection	White-Green	—	—
	3	No connection	Green-White		
—	29	No connection	White-Brown	—	—
	4	No connection	Brown-White		
3	30	Tip	White-Slate	067	097
	5	Ring	Slate-White		
4	31	Tip	Red-Blue	068	098
	6	Ring	Blue-Red		
—	32	No connection	Red-Orange	—	—
	7	No connection	Orange-Red		
The following part of the wiring chart applies only to the G8x16 MBM.					
—	33	No connection	Red-Green	—	—
	8	No connection	Green-Red		
5	34	Tip	Red-Brown	073	103
	9	Ring	Brown-Red		
6	35	Tip	Red-Slate	074	104
	10	Ring	Slate-Red		
—	36	No connection	Black-Blue	—	—
	11	No connection	Blue-Black		
—	37	No connection	Black-Orange	—	—
	12	No connection	Orange-Black		
7	38	Tip	Black-Green	075	105
	13	Ring	Green-Black		
8	39	Tip	Black-Brown	076	106
	14	Ring	Brown-Black		
—	40	No connection	Black-Slate	—	—
	15	No connection	Slate-Black		
The following part of the wiring chart applies to both the G4x16 and G8x16 MBMs.					
.	.	.	.	.	.
.	.	.	.	.	.
.	.	.	.	.	.
—	49	No connection	Violet-Brown	—	—
	24	No connection	Brown-Violet		
Aux (see Note)	50	Tip	Violet-Slate	—	—
	25	Ring	Slate-Violet		

Note: The Aux port supports full data speeds. When the line is in use by an analog device, the icon is lit on the phone. If you try to seize the line using the phone, the display shows "in use." Also, in the event of a power failure, an analog set on line 1 goes active (powered by the CO).

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